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S Chakravarthy, V Krishnaprasad, E Anwar, SK Kim - PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON VERY LARGE ..., 1994 - vldb.org

... and perhaps is the least understood compared to the **condition** and **action** components ... events; this rule requires an expres- sive **event**, specification language ...

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... We propose a new **Event-Action** model, which folds into the **event** specification the **condition** part of the well-known **Event-Condition-Action** ...

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S Gatzju, KR Dittrich - 1995 - ifi.unizh.ch

... 3.3 **Event** Parameters **Event** patterns can be parameterized such that information can be passed to the **condition** or **action** parts, if necessary. ...

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N Damianou, N Dulay, E Lupu, M Sloman - LECTURE NOTES IN COMPUTER SCIENCE, 2001 - Springer

... If the **condition** evaluates to true, then the ... can be based on **event** parameter values ...

inst auth+ sepDuty { subject s = accountants ; **action** approvePayment, issue ...

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S Catziu - Engineering, 1992 - research.microsoft.com

... rule execution component is involved for the **condition** evaluation and the **action** execution ... consists of states(input and output) modelling **event** classes, and ...

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NW Paton - 1999 - books.google.com

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L Liu, C Pu, W Tang - IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, 1999 -

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... **Event:** Update qty_on_hand(item) **Condition:** qty_on_hand(item) +
qty_on_order(item) < threshold(item) **Action:** submit_order(item) ...

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... pro- posed the use of **event-condition-action** rules (ECA ... have various advantages: •

The **event-based** coordination ... **Complex** process situ- ations are expressed by ...

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↑ ABSTRACT

The concept of a trigger is central to any active database. Upon the occurrence of a trigger event, the trigger is "fired", i.e, the trigger action is executed. We describe a model and a language for specifying basic and composite trigger events in the context of an object-oriented database. The specified events can be detected efficiently using finite automata. We integrate our model with O++, the database programming language for the ode object database being developed at AT&T Bell Labs. We propose a new Event-Action model, which folds into the event specification the condition part of the well-known Event-Condition-Action model and avoids the multiple coupling modes between the event, condition, and action trigger components.

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Detecting composite events in active database systems

Gatziu, S. Dittrich, K.R.
Inst. fur Inf., Zurich Univ.;

This paper appears in: [Research Issues in Data Engineering, 1994. Active Database: Proceedings Fourth International Workshop on](#)

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Abstract

The detection of events in an active database system turns out to be a difficult problem. The event specification languages proposed in the recent past which include, among others, the events (composite events). Therefore, a mechanism is required that is suitable to model the composite events and to implement the event detector. We demonstrate how Petri nets can be used as a basis of such a mechanism in the context of the SAMOS active database system prototype.

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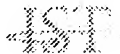
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... of their occurrence to the time at which the **composite event** is signalled. ... detection of composite events for our active object- oriented **database** system SAMOS ...

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... Thus, it might then be possible to signal a **composite event** based on events that ...

A condition formulates in which state the relevant part of the **database** has to ...

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... depending on the number of event occurrences that the resulting **composite event** requires in ... A condition may be a predicate on the **database** state or a **database** ...

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S Gatzju, A Geppert, KR Dittrich - SIGMOD RECORD, 1995 - historical.ncstrl.org

... of **composite event** construc- tors (see Table 1). The event history in SAMOS consists of all occurrences of the defined event descrip- tions. Each **database** ...

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... ObjectStore, • a rule execution component for condition evaluation and action execution.

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S Gatzju, A Koschel, G von Bülzingsloewen, H ... - ACM SIGMOD Record, 1998 - portal.acm.org

... which consists of all event occurrences which have not yet been consumed for a rule execution or **composite event** detection) and ... **Database Event Detection** ...

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... have presented a benchmark for active object-oriented **database** management sys ... have seen that the most complex SAMOS component – **composite event** detection – is ...

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New application areas or new technical innovations expect from database management systems more and more new functionality. However, adding functions to the DBMS as an integral part of them, tends to create monoliths that are difficult to design, implement, validate, maintain and adapt. Such monoliths can be avoided if one configures DBMS according to the actually needed functionality. In order to identify the basic functional components for the configuration the current monoliths should be broken up into smaller units, or in other words they could be "unbundled". In this paper we apply unbundling to active database systems. This results in a new form of active mechanisms where active functionality is no longer an integral part of the DBMS functionality. This allows the use of active capabilities with any arbitrary DBMS and in broader contexts. Furthermore, it allows the adaption of the active functionality to the application profile. Such aspects are crucial for a wide use of active functionality in real (database or not) applications.

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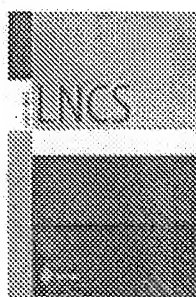
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Abstract

Summary form only given. Active database management systems (active DBMS) support management and execution of event/condition/action rules specifying reactive application. The advantages of active mechanisms are nowadays well known, there is still no wide use. The main problem is that especially for large rule sets, defined by different persons at different times, potential conflicts and dependencies between rules are hard to predict and rule behavior is hard to understand. Therefore, tools are needed to assist the development and maintenance of rule bases. This article provides graphical interfaces supporting both, "static" activities (performed during rule development, rule editing, browsing, design, rule analysis, and "dynamic" activities (performed at runtime during execution of an application) such as testing, debugging and understanding of rule behavior. The article shows the use of three of these tools, namely the rule editor, the browser and the rule analyzer in the process of developing applications for the active object oriented DBMS SAMOS.

Index Terms

Indexing

Controlled Indexing

[active databases](#) [deductive databases](#) [graphical user interfaces](#) [knowledge-based systems](#) [object-oriented databases](#)

Non-controlled Indexing

[active DBMS SAMOS](#) [active database management systems](#) [active mechanisms](#) [object oriented DBMS](#) [browser](#) [dynamic activities](#) [event/condition/action rules](#) [interfaces](#) [graphical tools](#) [large rule sets](#) [reactive application behavior](#) [rule behavior](#) [rule development](#) [rule editor](#) [rule specification](#) [static activities](#) [ternary rule analyzer](#)

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References

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


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SAMOS in hindsight: experiences in building an active object-oriented DBMS*¹

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Abstract

Active object-oriented database management systems incorporate object-oriented database technology and active mechanisms such as event-condition-action rules (ECA-rules). SAMOS has been among the first representatives of this class of systems. During the development of SAMOS, numerous then open research questions have been addressed. In this paper, we present a "historical" perspective of the SAMOS project and report on lessons and experiences we have gained in the project. We identify requirements, present feasible solutions, and report on experiences we have drawn from this project. In particular, we describe the rule

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